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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/651,017	08/28/2003	Naoto Kawamura	10991153-10	8417
7590 08/23/2005			EXAMINER	
HEWLETT-PACKARD COMPANY			ORTIZ, ANGELA Y	
Intellectual Property Administration P.O. Box 272400			ART UNIT	PAPER NUMBER
Fort Collins, CO 80528-9599			1732	

DATE MAILED: 08/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/651,017	KAWAMURA ET AL.	
Office Action Summary	Examiner	Art Unit	· · · · · · · · · · · · · · · · · · ·
	Angela Ortiz	1732	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence addres	ss
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN - Extensions of time may be available under the provisions of 37 CFR 1.11 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this commu D (35 U.S.C. § 133).	,
Status			
Responsive to communication(s) filed on 10 Ju This action is FINAL . 2b) ☐ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		erits is
Disposition of Claims			
4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or			
Application Papers	,		
9) The specification is objected to by the Examine 10) The drawing(s) filed on 28 August 2003 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive a (PCT Rule 17.2(a)).	on No ed in this National Sta	ge
Attachment(s))	4) 🔲 Interview Summary	(PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da		2)

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Application/Control Number: 10/651,017

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beerling et al., USP 6,508,536 for the reasons cited in the previous office action.

The cited reference substantially teaches the basic claimed method of forming a fluid ejection device comprising providing a carrier substrate 20 and a plurality of printhead dies 18 mounted thereon. Each print-head die 18 is of conventional design and includes an array of printing elements 24 having a nozzle chamber 36 and a nozzle opening 38, readable on the claimed fluid ejecting substrate. The print-head die 18 is electrically coupled to the carrier 20, either through the die or externally. When the connection is external, an encapsulant 124 (see figure 10) is dispensed over the coupling. See col. 2, lines 35-67; col. 3, lines 1-7, 34-65; col. 5, lines 18-40 and col. 6, lines 40-65.

The cited primary reference does not teach using a mold to dispense the encapsulant or controlling the positioning of the encapsulant.

The reference does teach applying the encapsulant, and the use of any conventional means to apply the encapsulant, including using a mold, is well within the level of ordinary skill in the art. It would have been obvious to one of ordinary skill in the

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art at the time the invention was made to use a mold as claimed, for applying the encapsulant and for shaping the encapsulant over the electrical coupling.

With respect to the feature of controlling the positioning of the encapsulant, such is well within the practitioner's choice for applying the encapsulant as desired, and would have been obvious for achieving selective covering of the electrical coupling.

Response to Arguments

Applicant's arguments filed June 10, 2005 have been fully considered but they are not persuasive.

Applicant argues that encapsulant 124 does not have a substantially co-planar surface with upper surface 70 and either the surface 58 or the surface 60.

Reconsideration has been given to this feature. Note that the applied reference teaches that a "...wire 122 is bonded to a......contact 130 located on a surface of the substrate 70..." and "an encapsulant is applied around the wire to seal the wire and protect it from breaking away from..... substrate 20....." at col. 6, lines 50-60. Since the wire is on the surface of the substrate 70, when the encapsulant is molded around the wire, it forms a coplanar surface with the substrate that the wire is located on. Note that the instant claim does not indicate the degree to which the encapsulant is in contact with the substrate; thus a localized area is deemed equivalent to coverage on the entire surface. Any subsequent argument should include an amendment to distinguish the claim from the prior art.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela Ortiz whose telephone number is 571-272-1206. The examiner can normally be reached on Monday-Thursday 9:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni can be reached on 571-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Angela Ortiz Primary Examiner

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